

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.-8. (Cancelled)

9. (New) A Step up switching converter for converting a DC input voltage into a DC output voltage the converter comprising:

a first semiconductor switch arranged in a series connection with a storage inductor and a sensor resistor,

a control electrode of said first semiconductor switch being connected via a first resistor to said input voltage, said first resistor constituting the operating resistor of a second semiconductor switch,

a voltage drop of said sensor resistor is fed to a control electrode of said second semiconductor switch as an indicator of current through said storage inductor, and

a connection of said storage inductor connected to said first semiconductor switch being connected on the one hand via a rectifier diode to an output capacitor which carries the output voltage and on the other hand via a series RC element to the control input of said second semiconductor switch.

10. (New) The step up converter in accordance with claim 9, wherein the voltage drop across the sensor resistor is fed to the control electrode of the second semiconductor switch via a second resistor.

11. (New) The step up converter in accordance with claim 9, wherein in order to control the output voltage a switching path of a third semiconductor switch, whose control input is connected to the output voltage via a Zener diode, lies in parallel to a switching path of the second semiconductor switch.

12. (New) The step up converter in accordance with claim 10, wherein in order to control the output voltage a switching path of a third semiconductor switch, whose control input is connected to the output voltage via a Zener diode, lies in parallel to the switching path of the second semiconductor switch.